

Free Mount Cylinder for Vacuum

ZCUK Series

How to Order

ZCUK C 16 - 20 D

With auto switch → **ZCDUK C 16 - 20 D - M9BW**

Number of auto switches

Nil	2 pcs.
S	1 pc.

Bore size

10	10 mm
16	16 mm
20	20 mm
25	25 mm
32	32 mm

Port thread type

Symbol	Type	Bore size
Nil	M5 x 0.8	ø10, ø16, ø20, ø25
Nil	Rc1/8	ø32
TN	NPT1/8	ø32
TF (Note)	G1/8	ø32

Note: In the case of rod piping (Q, R), TF (G1/8) is not available.

Auto switch

Nil / Without auto switch

Refer to the table below for applicable auto switches.

Built-in Magnet Cylinder Model

If a built-in magnet cylinder without an auto switch is required, there is no need to enter the symbol for the auto switch. (Example) ZCDUKC20-20D

Cylinder standard stroke (mm)

10, 16	5, 10, 15, 20, 25, 30
20, 25, 32	5, 10, 15, 20, 25, 30, 40, 50

Applicable Auto Switches/Refer to pages 1575 to 1701 for the detailed specifications on auto switches.

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)			Pre-wired connector	Applicable load	
					DC	AC	Perpendicular	In-line	0.5 (Nil)	1 (M)	3 (L)		5 (Z)	IC circuit
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	5 V, 12 V	—	M9NV	M9N	●	●	○	○	IC circuit	Relay, PLC
				3-wire (PNP)			M9PV	M9P	●	●	○	○		
				2-wire			M9BV	M9B	●	●	○	○		
	Diagnostic indication (2-color indicator)			3-wire (NPN)	M9NWW		M9NW	●	●	○	○	IC circuit		
				3-wire (PNP)	M9PWW		M9PW	●	●	○	○			
				2-wire	M9BWW		M9BW	●	●	○	○			
Water resistant (2-color indicator)	3-wire (NPN)	M9NAV ^{*1}	M9NA ^{*1}	○	○	●	●	IC circuit						
	3-wire (PNP)	M9PAV ^{*1}	M9PA ^{*1}	○	○	●	●							
	2-wire	M9BAV ^{*1}	M9BA ^{*1}	○	○	●	●							
Reed auto switch	—	Grommet	Yes	3-wire (NPN equivalent)	—	5 V	A96V	A96	●	—	—	—	IC circuit	—
				2-wire	24 V	12 V	A93V ^{*2}	A93	●	●	●	—		
			No	2-wire	24 V	100 V	A90V ^{*2}	A90	●	—	—	—	IC circuit	—

- *1 Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance. Consult with SMC regarding water resistant types with the above model numbers.
- *2 1 m type lead wire is only applicable to D-A93.
- * Lead wire length symbols: 0.5 m..... Nil (Example) M9NW
1 m..... M (Example) M9NWM
3 m..... L (Example) M9NWL
5 m..... Z (Example) M9NZW
- * Solid state auto switches marked with "○" are produced upon receipt of order.
- * Refer to pages 1648 and 1649 for the details on auto switches with a pre-wired connector.
- * Auto switches are shipped together but not assembled.

How to Order Vacuum Pad

Note) Refer to page 676 for combination of cylinder and pad.

• In the case of rod end male

ZPT 02 U N - B4

Pad dia. (mm)

02	ø2
04	ø4
06	ø6
08	ø8
10	ø10
13	ø13
16	ø16
20	ø20
25	ø25
32	ø32
40	ø40
50	ø50

• Vacuum entry (Mounting thread diameter)

Symbol	Thread dia.	ø2 to ø8	ø10 to ø16	ø20 to ø32	ø40, ø50
B4	M4 x 0.7	●	—	—	—
B5	M5 x 0.8	●	—	—	—
B6	M6 x 1	—	●	●	—
B8	M8 x 1.25	—	—	●	●
B10	M10 x 1.25	—	—	●	●

• Material

N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR (ø2 to ø16 only)
GS	Conductive silicone rubber (ø2 to ø16 only)

Table (1) Pad Dia./Pad Type

Type	2	4	6	8	10	13	16	20	25	32	40	50
Flat	●	●	●	●	●	●	●	●	●	●	●	●
Flat with ribs	—	—	—	—	●	●	●	●	●	●	●	●
Deep	—	—	—	—	—	—	—	—	—	—	—	—
Bellows	—	—	—	—	—	—	—	—	—	—	—	—

• In the case of pad direct mounting

ZP 04 U N - X11

Pad dia. (mm)

02	ø2
04	ø4
06	ø6
08	ø8
10	ø10
13	ø13
16	ø16
20	ø20
25	ø25
32	ø32
40	ø40
50	ø50

• Suffix

Symbol	Applicable cylinder model
X11	ZC(D)UK _R 10
Nil	ZC(D)UK _R 16 to 32

Note) -X11 pad: ø2 to ø8 diameter and flat type only.

• Material

N	NBR
S	Silicone rubber
U	Urethane rubber
F	FKM
GN	Conductive NBR (ø2 to ø16 only)
GS	Conductive silicone rubber (ø2 to ø16 only)

• Pad type

U	Flat
C	Flat with ribs
D	Deep
B	Bellows (Except "-X11")

Pad type

Application:
Refer to "Table (1)".

U	Flat
C	Flat with ribs
D	Deep
B	Bellows